

What is claimed is:

1. A vacuum circuit breaker comprising:

a plurality of switching mechanism units having movable contacts and
5 stationary contacts for connecting or breaking an electric circuit between an
electric source and an electric load respectively, and disposed in lengthwise
direction;

an actuator unit including at least one rotary shaft for providing the
movable contacts with dynamic power so as to move to positions contacting to the
10 stationary contacts or to positions separating from the stationary contacts;

a supporting frame for fixing and supporting the switching mechanism
units and the actuator unit;

a transfer link unit, which includes a transfer link means coupled to the
rotary shaft for transferring rotational movement of the rotary shaft to horizontally
15 straight movement, for transferring rotating movement of the rotary shaft to a
plurality of vertical movements; and

a plurality of rotational links having one end part coupled to the transfer
link means and the other end parts coupled to the switching mechanism units for
transferring the horizontally straight movements of the transfer link means to
20 vertical movements for position switching of the movable contacts.

2. The breaker of claim 1, wherein viewing windows are disposed on
the supporting frame for displaying ON or OFF state of the vacuum circuit breaker
by a location of the rotational link.

3. The breaker of claim 1, wherein the transfer link means comprises:

a swing link coupled to the rotary shaft and swung according to the rotating movement of the rotary shaft; and

5 a straight link coupled to the swing link and performing horizontally straight movement according to the swing of the swing link.

4. The breaker of claim 3, wherein the swing link comprises:

10 a link connector fixed on the rotary shaft and swinging with the rotary shaft;

a first swing lever coupled to an end of the link connector and swinging with the link connector; and

15 a second swing lever having one end part coupled to the first swing lever and the other end part coupled to the straight link for transmitting the swing movement of the first swing lever to the straight link.

5. The breaker of claim 3, wherein the straight link comprises:

a pair of straight levers having two long bars disposed parallel to each other with a predetermined gap therebetween; and

20 guide links located between the two bars of the straight levers for transmitting the moving forces of the straight levers to the rotary link and pressing the rotational links to a direction by which the contacts of the movable and stationary contacts are maintained.

25 6. The breaker of claim 5, wherein the guide link comprises:

a guide rod having one end part coupled to the straight levers and the other end part coupled to the rotational link, and including an aperture so as to horizontally move in a limited length relatively for the rotational links; and

an elastic means supported by the guide rod for providing the rotational
5 links with elastic force to a direction maintaining the contacts between the movable contacts and the stationary contacts.

7. The breaker of claim 1, wherein the rotational link comprises:

two side plates of "L" shape; and

10 a rotational joint disposed between the two side plates and relatively rotated in a state of connecting to a connecting portion of the switching mechanism unit.